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PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTALL LEADER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER 0074-510506

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371						
INTERNATIONAL APPLICATION NO.	NATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE C					
TITLE OF INVENTION	CT/NZ2003/000149					
NMR APPARATUS	NMR APPARATUS					
PAUL TERENCE CALLAGHAN ET	PLICANT(S) FOR DO/EO/US PAUL TERENCE CALLAGHAN ET AL.					
Applicant herewith submits to the United St	Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
1. This is a FIRST submission of items co	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.					
2. X This is a SECOND or SUBSEQUENT s	submission of items concerning a submission	on under 35 U.S.C. 371.				
3. This is an express request to begin nat (5), (6), (9) and (21) indicated below.						
4. The US has been elected (Article 31).	4. The US has been elected (Article 31).					
5. A copy of the International Applicatio	n as filed (35 U.S.C. 371(c)(2))					
a. is attached hereto (required	a. is attached hereto (required only if not communicated by the International Bureau).					
b. has been communicated by	y the International Bureau.					
c. is not required, as the appli	ication was filed in the United States Receiv	ring Office (RO/US).				
6. An English language translation of th	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).					
a. is attached hereto.	a. is attached hereto.					
b. has been previously submi	b. has been previously submitted under 35 U.S.C. 154(d)(4).					
7. Amendments to the claims of the Inte	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))					
a. are attached hereto (requi	a. are attached hereto (required only if not communicated by the International Bureau).					
b. have been communicated	b. have been communicated by the International Bureau.					
c. have not been made; how	c. have not been made; however, the time limit for making such amendments has NOT expired.					
d. have not been made and	d. have not been made and will not be made.					
8. An English language translation of the	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).					
9. X An oath or declaration of the inventor	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).					
10. An English language translation of th Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary E	Examination Report under PCT				
Items 11 to 20 below concern document(s	s) or information included:					
11. X An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.					
12. An assignment document for recording	ng. A separate cover sheet in compliance w	rith 37 CFR 3.28 and 3.31 is included.				
13. X A preliminary amendment.						
14. X An Application Data Sheet under 37	CFR 1.76.					
15. A substitute specification.	A substitute specification.					
16. A power of attorney and/or change of	A power of attorney and/or change of address letter.					
17. A computer-readable form of the seq	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.					
18. A second copy of the published Intere	A second copy of the published International Application under 35 U.S.C. 154(d)(4).					
19. A second copy of the English langua	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).					

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LLS APPLICATI	ON NO. (if known,	see 37 CFR 1.5)	INTERNATIONAL APP	PLICATION NO.	ATTORNEY'S DC	CKEI NUMBER
10/520			PCT/NZ2003/000149		0074-510506	
20. Other if	tems or informatio	of Letter	to the United Sta	tes Designat	ed/Elected Off:	ice (DO/EO/US)
T1 - 6-11-	wing fees have be	on submitted			CALCULATIONS	PTO USE ONLY
	; national fee (37 (\$300	\$	
	ination fee (37 CF			in a second proported	\$	
If the written opini by IPEA/U All other situation	JS indicates all cla	A/US or the inter sims satisfy provi	national preliminary examinati sions of PCT Article 33(1)-(4)	\$0 \$200		
If the written opini IPEA/US Search fee (37 Cl International Sea	indicates all claim FR 1.445(a)(2)) ha nal Searching Aut rch Report prepare communicated to	or the Internation s satisfy provisio is been paid on t hority ed by an ISA othe	he international application to er than the US and provided to	the USPTO as an	\$	
Additional fee	e listing in complia	and drawings file nce with 37 CFR R 1 492(i))	d in paper over 100 sheets (ex 1.821(c) or (e) or computer pa s of paper or fraction thereof.	xcluding rogram listing in an		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction RATE thereof (round up to a whole number)				
- 100 =	/50 =			x \$250	\$	<u> </u>
Surpharge of \$13	0.00 for furnishing commencement of	any of the searce the national stag	ch fee, examination fee, or the ge (37 CFR 1.492(h)).	oath or declaration	\$ 130.00	
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	
Total claims		29 - 20 =	9	x \$ 50	\$ 450.00	
Independent clair	ms	4 -3=	1	x \$200	\$ 200.00	
	ENDENT CLAIM(S	6) (if applicable)		+ \$360	\$	
				CALCULATIONS =	\$ 7.80.00	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		390.00				
				SUBTOTAL =	\$ 390.00	
Processing fee o	f \$130.00 for furni late (37 CFR 1.49	shing the English 2(i)).	translation later than 30 mon	ths from the earliest +	\$	
			TOTAL	L NATIONAL FEE =	\$ 390.00	
Fee for recording	the enclosed ass e cover sheet (37	signment (37 CFF CFR 3.28, 3.31).	R 1.21(h)). The assignment mu \$40.00 per property	ust be accompanied +	\$	
7				EES ENCLOSED	\$ 390.00	
			1		Amount to be refunded:	\$
					Amount to be charged	\$

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a. X	A check in the amount of \$ 390.00 to cover the above	fees is enclosed.
b. 🗆	Please charge my Deposit Account No in the amount of \$ A duplicate copy of this sheet is enclosed.	to cover the above fees.
c. X	The Commissioner is hereby authorized to charge any additional fees which Account No. $\underline{04-1406}$. A duplicate copy of this sheet is enclosed.	n may be required, or credit any overpayment to Deposit
d. 🔲	Fees are to be charged to a credit card. WARNING: Information on this form be included on this form. Provide credit card information and authorization	n may become public. Credit card information should not n on PTO-2038.
NOTE: Wand gran	Where an appropriate time limit under 37 CFR 1.495 has not been met, a nted to restore the International Application to pending status.	petition to revive (37 CFR 1.137(a) or (b)) must be filed
Cust DANN 1601 Phi1 US Tel: Fax:	CLI CORRESPONDENCE TO: omer Number 000110 , DORFMAN, HERRELL AND SKILLMAN, P.C. Market Street, Suite 2400 adelphia, PA 19103-2307 215-563-4100 215-563-4044 1: vpace@ddhs.com	SIGNATURE Vincent T. Pace NAME 31,049 REGISTRATION NUMBER

United States Pasent and Trademark Office

DEC 2 1 2005

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

U.S. APPLICATION N RER NÓ 10/520,862

FIRST NAMED APPLICANT Paul Terence Callaghan ATTY. DOCKET NO. 0074-510506

Page 1 of 2

INTERNATIONAL APPLICATION NO.

000110 DANN, DORFMAN, HERRELL & SKILLMAN 1601 MARKET STREET **SUITE 2400** PHILADELPHIA, PA 19103-2307

PCT/NZ03/00149 PRIORITY DATE I.A. FILING DATE 07/11/2003 07/11/2002

CONFIRMATION NO. 4460 371 FORMALITIES LETTER OC000000017194421*

Date Mailed: 10/19/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 01/11/2005
- Copy of the International Search Report filed on 01/11/2005
- Copy of IPE Report filed on 01/11/2005
- Copy of Annexes to the IPER filed on 01/11/2005
- U.S. Basic National Fees filed on 01/11/2005
- Priority Documents filed on 01/11/2005
- Specification filed on 01/11/2005
- Claims filed on 01/11/2005
- Abstracts filed on 01/11/2005
- Drawings filed on 01/11/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Additional claim fees of \$480 as a small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath

or declaration) as set forth in 37 CFR 1.492(h) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$545 for a Small Entity:

- \$65 Surcharge.
- Total additional claim fee(s) for this application is \$ 480
 - \$100 for 1 independent claims over 3.
 - \$200 for 8 total claims over 20.
 - \$180 for multiple dependent claim surchare.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

FREDERICK SMITH

Telephone: (703) 308-9140 EXT 210

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/520.862	PCT/NZ03/00149	0074-510506

FORM PCT/DO/EO/905 (371 Formalities Notice)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U.S. Application No. 10/520,862	Applicant's or Agent's File Reference 0074-510506
IDENTIFICATION	OF THE INTERNATIONAL APPLICATION
Int'l Appln. No. PCT/NZ2003/000149	Int'l. Filing Date 11 July 2003
Applicant (name) PAUL TERENCE CALLAGHAN	
	OF LETTER TO THE UNITED STATES ED/ELECTED OFFICE (DO/EO/US)

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this Correspondence is being deposited on <u>December 19, 2005</u>, with the United States Postal Service as first-class mail in an envelope properly addressed to COMMISSIONER FOR PATENTS, Alexandria, Virginia 22313-1450.

December 19, 2005

Date of Certificate

Vincent T. Pace

PTO Registration No. 31,049

We are enclosing the following for the above-identified application:

- 1) Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 (Form PTO-1390) (SECOND or SUBSEQUENT submission);
- 2) Copy of Form PCT/DO/EO/905;
- 3) Declaration, Power of Attorney and Power to Inspect;
- 4) Preliminary Amendment;
- 5) Information Disclosure Statement, including Form PTO-1449 and copies of documents other than issued U.S. Patents/published U.S. patent applications;
- 6) Application Data Sheet;
- 7) Government Fees (small entity): late oath or declaration surcharge (\$65), excess claims fee (\$175), and excess independent claims fee (\$100): check in the amount of \$340.00.